DELCO 2000 MSDS





Material Safety Data Sheets

Division of Facilities Services

DOD Hazardous Material Information (ANSI Format) For Cornell University Convenience Only

ALL MODELS OF DELCO BATTERIES

Section 1 - Product and Company Identification	Section 9 - Physical & Chemical Properties
Section 2 - Compositon/Information on Ingredients	Section 10 - Stability & Reactivity Data
Section 3 - Hazards Identification Including Emergency Overview	Section 11 - Toxicological Information
Section 4 - First Aid Measures	Section 12 - Ecological Information
Section 5 - Fire Fighting Measures	Section 13 - Disposal Considerations
Section 6 - Accidental Release Measures	Section 14 - MSDS Transport Information
Section 7 - Handling and Storage	Section 15 - Regulatory Information
Section 8 - Exposure Controls & Personal Protection	Section 16 - Other Information

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Section 1 - Product and Company Identification ALL MODELS OF DELCO BATTERIES

Product Identification: ALL MODELS OF DELCO BATTERIES **Date of MSDS:** 06/04/1994 **Technical Review Date:** 08/28/1997

FSC: 6140 **NIIN:** 01-355-2013

Submitter: N EN Status Code: C

MFN: 02 Article: N Kit Part: N

Manufacturer's Information

Manufacturer's Name: DELCO REMY DIV GMC Manufacturer's Address1: 2401 COLUMBUS AVE Manufacturer's Address2: ANDERSON, IN 46018

Manufacturer's Country: US

General Information Telephone: 317-646-7800

Emergency Telephone: 317-646-7800 **Emergency Telephone:** 317-646-7800

MSDS Preparer's Name: EDWARD M. ESENIAK

Proprietary: N Reviewed: N Published: Y CAGE: NO488

Special Project Code: N

Item Description

Item Name: BATTERY,STORAGE

Item Manager:

Specification Number: NK **Type/Grade/Class:** NK

Unit of Issue:

Unit of Issue Quantity: Type of Container:

Contractor Information

Contractor's Name: DELCO REMY DIVISION GMC Contractor's Address1: 2401 COLUMBUS AVE Contractor's Address2: ANDERSON, IN 46018

Contractor's Telephone: 317-646-7800

Contractor's CAGE: NO488

Contractor Information

Contractor's Name: GENERAL MOTORS CORP, DELCO REMY DIV

Post Office Box: 640

Contractor's Address1: 2401 COLUMBUS AVE Contractor's Address2: ANDERSON, IN 48011

Contractor's Telephone: EMER:313/556-1597 OR 6200

Contractor's CAGE: 16764

Section 2 - Compositon/Information on Ingredients ALL MODELS OF DELCO BATTERIES

Ingredient Name: LEAD (SARA 313) (CERCLA)

Ingredient CAS Number: 7439-92-1 Ingredient CAS Code: M

RTECS Number: OF7525000 RTECS Code: M

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: >80

% Enviromental Weight:

Other REC Limits: N/K

OSHA PEL: SEE 1910.1025 OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: 0.15 MG/M3 DUST ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: 1 LB **DOT Reporting Quantity:** 1 LB **Ozone Depleting Chemical:** N

Ingredient Name: POLYETHYLENE; (SEPARATOR)
Ingredient CAS Number: Ingredient CAS Code: X

RTECS Number: RTECS Code: X

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: N/K

% Environmental Weight:

Other REC Limits: N/K

OSHA PEL: N/K (FP N) **OSHA PEL Code:** M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: N/K (FP N) ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity:

Ozone Depleting Chemical:

Ingredient Name: POLYPROPYLENE (PLASTIC); (CASE AND COVER)

Ingredient CAS Number: Ingredient CAS Code: X

RTECS Number: RTECS Code: X

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: N/K

% Environmental Weight:

Other REC Limits: N/K

OSHA PEL: N/K (FP N) OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: N/K (FP N) ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical:

Ingredient Name: SULFURIC ACID (SARA 302/313) (CERCLA) Ingredient CAS Number: 7664-93-9 Ingredient CAS Code: M

RTECS Number: WS5600000 RTECS Code: M

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: 37

% Environmental Weight:

Other REC Limits: N/K

OSHA PEL: 1 MG/M3 OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: 1 MG/M3;3 STEL ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code: EPA Reporting Quantity: 1000 LBS DOT Reporting Quantity: 1000 LBS

Ozone Depleting Chemical: N

Ingredient Name: VOLATILE ORGANIC COMPOUNDS (THEORETICAL): 9 LBS/GAL (AS PACKAGED

MINUS WATER).

Ingredient CAS Number: Ingredient CAS Code: X RTECS Number: 9999999VO RTECS Code: M

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: N/K

% Environmental Weight:

Other REC Limits: N/K

OSHA PEL: NOT APPLICABLE OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: NOT APPLICABLE ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical:

Ingredient Name: WATER

Ingredient CAS Number: 7732-18-5 Ingredient CAS Code: M

RTECS Number: ZC0110000 RTECS Code: M

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: BALANCE

% Environmental Weight:

Other REC Limits: N/K

OSHA PEL: N/K (FP N) OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: N/K (FP N) ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical: N

Section 3 - Hazards Identification, Including Emergency Overview ALL MODELS OF DELCO BATTERIES

Health Hazards Acute & Chronic: CONTACT W/SULFURIC ACID IS HARMFUL TO BODY TISSUE (BURNS). NOTE:LEAD APPEARS ON NAVY LISTING OF OCCUPATIONAL CHEMICAL REPRODUCTIVE HAZARDS. SEEK CONSULTATION FROM APPROPRIATE HEALTH PROFESSIONALS CONC ERNING LATEST HAZARD LIST INFORMATION &SAFE HANDLING & EXPOSURE INFORMATION (FP N).

Signs & Symptoms of Overexposure:

SEE HEALTH HAZARDS.

Medical Conditions Aggravated by Exposure:

NONE SPECIFIED BY MANUFACTURER.

LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.

Route of Entry Indicators:

Inhalation: YES Skin: YES Ingestion: YES

Carcenogenicity Indicators

NTP: NO IARC: YES OSHA: NO

Carcinogenicity Explanation: SULFURIC ACID: IARC MONOGRAPHS, VOL 54, PG 41, 1992: GROUP 1.

ANIMAL: PULMONARY IRRITATION.

Section 4 - First Aid Measures ALL MODELS OF DELCO BATTERIES

First Aid:

EYES:IMMEDIATELY FLUSH W/POTABLE WATER FOR A MINIMUM OF 15 MINUTES, SEEK ASSISTANCE FROM MD (FP N). SKIN:FLUSH W/COPIOUS AMOUNTS OF WATER. CALL MD (FP N). INHAL:REMOVE TO FRESH AIR. GET MEDICAL ATTENT ION. INGEST:DO NOT INDUCE VOMITING. GIVE MILK MIXED W/EGG WHITES, IF CONSCIOUS.

Section 5 - Fire Fighting Measures ALL MODELS OF DELCO BATTERIES

Fire Fighting Procedures:

USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N). TOXIC FUMES FROM BURNING PLASTIC, ACID FUMES & VAPORS CAN OCCUR.

Unusual Fire or Explosion Hazard:

WHILE BATTERIES ARE BEING CHARGED, HYDROGEN GAS IS GENERATED. AVOID OPEN FLAME, SPARKS OR LIGHTED MATCHES. ACID, AN OXIDIZER, CAN IGNITE COMBUSTS UPON CONTACT.

Extinguishing Media:

MEDIA SUITABLE FOR SURROUNDING FIRE (FP N).

Flash Point: Flash Point Text: NOT APPLICABLE

Autoignition Temperature:

Autoignition Temperature Text: N/A

Lower Limit(s): N/A Upper Limit(s): N/A

Section 6 - Accidental Release Measures ALL MODELS OF DELCO BATTERIES

Spill Release Procedures:

NEUTRALIZE &/OR FLUSH W/LARGE VOLUMES OF WATER. CONTAIN SPILL. CERCLA REPORTABLE QUANTITY:1,000 LBS.

Section 7 - Handling and Storage ALL MODELS OF DELCO BATTERIES

Handling and Storage Precautions:

Other Precautions:

Section 8 - Exposure Controls & Personal Protection ALL MODELS OF DELCO BATTERIES

Repiratory Protection:

USE NIOSH APPROVED RESPIRATORY PROTECTION IF 1 MG/M3 IS EXCEEDED (ACID).

Ventilation:

LOCAL EXHAUST: YES AS CHARGING STATIONS.

Protective Gloves: RUBBER GLOVES.

Eve Protection: ANSI APPROVED CHEM WORKERS GOGGS(SUPDAT)

Other Protective Equipment: ANSI APPROVED EYE WASH FOUNTAIN & DELUGE SHOWER (FP N).

USE RUBBER BOOTS & ACID-PROOF CLOTHING FOR MAJOR SPILLS.

Work Hygenic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Health & Safety Information: SPEC GRAV: AVERAGE 1.28 +/- 0.01 (VARIES

W/BATTERY SIZE). EYE PROT:& FULL LENGTH FACESHIELD (FP N).

Section 9 - Physical & Chemical Properties ALL MODELS OF DELCO BATTERIES

HCC:

NRC/State License Number: Net Property Weight for Ammo:

Boiling Point: Boiling Point Text: 451F,233C

Melting/Freezing Point: Melting/Freezing Text: N/K Decomposition Point: Decomposition Text: N/K Vapor Pressure: 2.73 @ 25C Vapor Density: N/A

Percent Volatile Organic Content: Specific Gravity: SUPP DATA

Volatile Organic Content Pounds per Gallon:

pH: <1

Volatile Organic Content Grams per Liter:

Viscosity: N/P

Evaporation Weight and Reference: NOT APPLICABLE

Solubility in Water: MISCIBLE

Appearance and Odor: LIQUID, SOLID.

Percent Volatiles by Volume: N/A

Corrosion Rate: N/K

Section 10 - Stability & Reactivity Data ALL MODELS OF DELCO BATTERIES

Stability Indicator: YES Materials to Avoid:

STRONG REDUCING MATERIALS.

Stability Condition to Avoid:

NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:

WHEN HEATED, CAN EMIT HIGHLY TOXIC FUMES.

Hazardous Polymerization Indicator: NO **Conditions to Avoid Polymerization:**

NOT RELEVANT

Section 11 - Toxicological Information ALL MODELS OF DELCO BATTERIES

Toxicological Information:

N/P

Section 12 - Ecological Information ALL MODELS OF DELCO BATTERIES

Ecological Information:

N/P

Section 13 - Disposal Considerations ALL MODELS OF DELCO BATTERIES

Waste Disposal Methods:

DISPOSE OF ACCORDING TO LOCAL, STATE & FEDERAL REGULATIONS FOR LEAD SCRAP OR ACID. RCRA HAZARDOUS WASTE #:D002.

Section 14 - MSDS Transport Information ALL MODELS OF DELCO BATTERIES

Transport Information:

N/P

Section 15 - Regulatory Information ALL MODELS OF DELCO BATTERIES

SARA Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Section 16 - Other Information ALL MODELS OF DELCO BATTERIES

Other Information:

N/P

HMIS Transportation Information

Product Identification: ALL MODELS OF DELCO BATTERIES

Transporation ID Number: 128745 Responsible Party CAGE: NO488 Date MSDS Prepared: 06/04/1994 Date MSDS Reviewed: 10/22/1997

MFN: 10/22/1997 Submitter: N TN Status Code: C

Container Information

Unit of Issue:

Container Quantity: Type of Container: Net Unit Weight:

Article without MSDS: N

Technical Entry NOS Shipping Number:

Radioactivity:

Form:

Net Explosive Weight:

Coast Guard Ammunition Code:

Magnetism: N/P AF MMAC Code:

DOD Exemption Number: Limited Quantity Indicator: Multiple Kit Number: 0

Kit Indicator: N Kit Part Indicator: N Review Indicator: Y Additional Data:

Department of Transportation Information

DOT Proper Shipping Name: BATTERIES, WET, FILLED WITH ACID

DOT PSN Code: BQN

Symbols:

DOT PSN Modifier: ELECTRIC STORAGE

Hazard Class: 8

UN ID Number: UN2794 DOT Packaging Group: III

Label: CORROSIVE
Special Provision(s):
Packaging Exception:
Non Bulk Packaging: 159
Bulk Packaging: 159

Maximimum Quanity in Passenger Area: 30 KG GRO Maximimum Quanity in Cargo Area: NO LIMIT

Stow in Vessel Requirements: A **Requirements Water/Sp/Other:**

IMO Detail Information

IMO Proper Shipping Name: BATTERIES, WET, FILLED WITH ACID

IMO PSN Code: BWD

IMO PSN Modifier: ELECTRIC STORAGE

IMDG Page Number: 8120

UN Number: 2794 UN Hazard Class: 8

IMO Packaging Group: III Subsidiary Risk Label: -EMS Number: 8-10

Medical First Aid Guide Number: 700

IATA Detail Information

IATA Proper Shipping Name: BATTERIES, WET, FILLED WITH ACID,

IATA PSN Code: CZM

IATA PSN Modifier: ELECTRIC STORAGE +

IATA UN Id Number: 2794

IATA UN Class: 8 Subsidiary Risk Class: UN Packaging Group: III IATA Label: CORROSIVE

Packaging Note for Passengers: 800

Maximum Quantity for Passengers: NO LIMIT

Packaging Note for Cargo: 800

Maximum Quantity for Cargo: NO LIMIT

Exceptions: A51

AFI Detail Information

AFI Proper Shipping Name: BATTERIES, WET, FILLED WITH ACID

AFI Symbols:

AFI PSN Code: CZM

AFI PSN Modifier: ,ELECTRIC STORAGE

AFI UN Id Number: UN2794

AFI Hazard Class: 8 **AFI Packing Group:** III

AFI Label:

Special Provisions: P5

Back Pack Reference: A12.5

HAZCOM Label Information

Product Identification: ALL MODELS OF DELCO BATTERIES

CAGE: NO488

Assigned Individual: Y

Company Name: DELCO REMY DIVISION GMC

Company PO Box:

Company Street Address1: 2401 COLUMBUS AVE Company Street Address2: ANDERSON, IN 46018 US

Health Emergency Telephone: 317-646-7800

Label Required Indicator: Y **Date Label Reviewed:** 08/28/1997

Status Code: C

Manufacturer's Label Number:

Date of Label: 08/28/1997

Year Procured: N/K **Organization Code:** G

Chronic Hazard Indicator: Y Eye Protection Indicator: YES Skin Protection Indicator: YES

Respiratory Protection Indicator: YES

Signal Word: WARNING Health Hazard: Moderate Contact Hazard: Moderate

Fire Hazard: None

Reactivity Hazard: None

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